

# 中央研究院數學研究所

Institute of Mathematics, Academia Sinica

## Taipei Postdoc Seminar

**Speaker** : 寺門康裕 博士 Dr. Yasuhiro Terakado  
(本所 Academia Sinica)

**Title** : *The determinant and the discriminant of a complete intersection of even dimension*

**Abstract** :

The étale cohomology group of a proper smooth variety has a natural action of the absolute Galois group of the base field. This enables us to investigate the arithmetic of the variety.

In this talk, we show that for a smooth complete intersection of even dimension, the quadratic character of the absolute Galois group defined by the determinant of the étale cohomology is computed via the square root of the discriminant of defining polynomials of the variety.

**Time** : 11:00 – 12:30, Wednesday, May 3, 2017

**Venue** : Room 202, Astro-Math. Buidling (NTU Campus)

**Organizer** : Yu-Yen Chien (NCTS), Jyun-Ao Lin (Academia Sinica)

**Refreshment** : 10:30

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